

## ABSTRACT OF THE DISCLOSURE

An inverter control unit for motor driving includes a rectifier circuit for converting into a DC power a first AC power inputted from an AC power supply, which includes a diode bridge and a reactor connected to an AC input side or a DC  
5 output side of the diode bridge and having a small inductance, and an inverter for converting the DC power from the rectifier circuit into a second AC power so as to output the second AC power to a motor. Furthermore, a capacitor for absorbing regenerative energy of the motor, which has a small capacitance and an overvoltage protecting circuit whose impedance is lowered by overvoltage are  
10 connected between DC buses of the inverter.